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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hwee Hwa PANG et al.

Group Art Unit: 2122

Appln No : 09/856,513
(National Stage of PCT/SG98/00102)

Examiner:

Filed : June 15, 2001
(International Filing Date December 16, 1998)

For : PROCESS ORIENTED COMPUTING ENVIRONMENT

INFORMATION DISCLOSURE STATEMENT

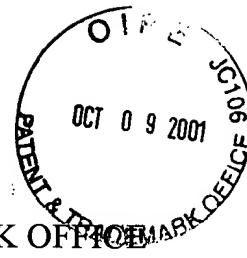
Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56, §1.97-1.98,
Applicants hereby call the following documents to the Examiner's attention:

In an International Search Report, issued on January 14, 2000, for application no.
PCT/SG/99/00009, the following documents were cited:

(1) U.S. Patent No. 5,603,031 to WHITE et al., issued on February 11, 1997, was cited as an X-Category document (i.e., document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone) with respect to claims 1-3 and 6, and an A-Category document (i.e., document defining the general state of the art which is not considered to be of particular relevance) with respect to claims 4-5 and 7-22. The Examiner indicated the Summary of the Invention; and paragraphs



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4, 8, and 23 to be relevant;

(2) A printout of a Web Site entitled "Structure of a UTM application", Concepts and Functions, Chapter 5, paragraph 3, page 67, published February, 1997, was cited as an A-Category document with respect to claims 7-10. The Examiner indicated section 5.2, paragraph 3, page 67 to be relevant;

(3) A printout of a Web Site entitled "System-internal procedures", Performance Handbook, Chapter 5.3.1: Managing the resource main memory, published February, 1997, was cited as an A-Category document with respect to claims 7-10. The Examiner indicated pages 248 and 255-257 to be relevant; and

(4) WO 9735262 to HITACHI, published on September 25, 1997, was cited as an A-Category document with respect to claims 1-22.

In an International Search Report, issued on May 22, 2000, for application no. PCT/SG/98/00102, the following documents were cited:

(5) U.S. Patent No. 5,603,031 (mentioned above), was cited as an X-Category document with respect to claims 1-5, 22-25, 27-31, and 48-51. The Examiner indicated the summary; column 7, line 66 - column 8, line 10; column 8, line 51 ff.; column 10, line 31 - column 11, line 28; and figs. 24A-C as relevant portions. This document was also cited as a Y-Category document (i.e., document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art) with

respect to claims 5, 12, 31, and 38. The Examiner indicated the entire document to be relevant;

(6) Aptiva Handbook (IBM), published June, 1996, along with an English language translation of the same, was cited as an X-Category document with respect to claims 1-3, 22, 23, 26-29, 48, 49, and 52;

(7) A printout of a Web Site entitled "Rapid Resume", retrieved by the Examiner on February 16, 2000, was cited as an X-Category document with respect to claims 1-3, 22, 23, 26-29, 48, 49, and 52. The Examiner indicated the entire document to be relevant;

(8) A printout of a Web Site entitled "Aglets Specification (1.0), by Oshima et al., retrieved by the Examiner on May 18, 2000, was cited as an X-Category document with respect to claims 1-4, 6-12, 14, 16, 19-30, 32-38, 40, 42, 45, and 48-52. This document was also cited as a Y-Category document with respect to claims 5, 12, 31, and 38. The Examiner indicated the entire document to be relevant;

(9) An article entitled, "JAFMAS: A Multiagent Application Development System", by CHAUHAN et al., Proceedings of the Second International Conference of Autonomous Agents, Minneapolis, MN; May 10-13, 1998, pages 100-107, was cited as an A-Category document with respect to claims 1-52. The Examiner indicated the entire document to be relevant;

(10) An article entitled "Solve real problems with aglets, a type of mobile agent", by VENNERS, JavaWorld, May 1997, was cited as an A-Category document with respect to

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claims 1-52. The Examiner indicated the entire document to be relevant, especially the section entitled "Aglets: A refresher";

(11) An article entitled "Agent Design Patterns: Elements of Agent Application Design", by ARIDOR et al., Proceedings of the Second International Conference of Autonomous Agents, Minneapolis, MN; May 10-13, pages 108-115, was cited as an A-Category document with respect to claims 1-52. The Examiner indicated the entire document to be relevant;

(12) A printout of a Web Site entitled "Structure of a UTM application" (mentioned above), was cited as an A-Category document with respect to claims 1-52. The Examiner indicated section 5.2, paragraph 3, page 67 to be relevant;

(13) A printout of a Web Site entitled "System-internal procedures" (mentioned above), was cited as an A-Category document with respect to claims 1-52. The Examiner indicated Chapter 5.3.1: Managing the resource main memory, especially pages 248 and 255-257 to be relevant;

(14) A printout of a Web Site entitled "The Dynamic Binder Loader/Starter", published April, 1993, was cited as an A-Category document with respect to claims 1-52. The Examiner indicated Chapter 2.3.1: Unloading and unlinking objects (page 44) to be relevant; and

(15) WO 9735262 to HITACHI (mentioned above), published on September 25, 1997,

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was cited as an A-Category document with respect to claims 1-52. The Examiner indicated the summary to be relevant.

In an International Search Report, issued on May 22, 2000, for application no. PCT/SG/98/000018, the following documents were cited:

(16) U.S. Patent No. 5,603,031 (mentioned above), was cited as an X-Category document with respect to claims 1-10, 31, and 32; and an A-Category document with respect to claims 11-30. The Examiner indicated the summary; column 7, line 66 - column 8, line 10; column 8, line 51 ff.; column 10, line 31 - column 11, line 28; and figs. 24A-C to be relevant;

(17) An article entitled "Agent Design Patterns: Elements of Agent Application Design", (mentioned above), was cited as an X-Category document with respect to claims 1-3, 7, 9, 31 and 32; and an A-Category document with respect to claims 4-6, 8, 10-30;

(18) An article entitled "Dynamic Software Agents for Business Intelligence Applications", by CHEN et al., Proceedings of the Second International Conference of the Autonomous Agents, Minneapolis, MN; May 10-13, pages 453-454, was cited as an A-Category document with respect to claims 1-32;

(19) An article entitled "JAFMAS: A Multiagent Application Development System" (mentioned above), was cited as an A-Category document with respect to claims 1-32;

(20) PKZIP (R) FAST! Create/Update Utility Version 2.04g, 1993-01-02, was cited as an A-Category document with respect to claims 1-32. Applicants note that this citation

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is directed towards the PKZIP program, a paper version of which is presently not available to the undersigned;

(21) WO 9735262 to HITACHI (mention above), published on September 25, 1997, was cited as an A-Category document with respect to claims 1-32. The Examiner indicated the entire document to be relevant;

(22) A printout of a Web Sited entitled "The Dynamic Binder Loader/Starter" (mentioned above), was cited as an A-Category document with respect to claims 1-10, 31 and 32. The Examiner indicated Chapter 2.3.1: Unloading and unlinking objects (page 44) to be relevant;

(23) A printout of a Web Site entitled "Structure of a UTM application" (mentioned above), was cited as an A-Category document with respect to claims 1-10, 31 and 32. The Examiner indicated section 5.2, paragraph 3, page 67 to be relevant; and

(24) A printout of a Web Site entitled "System-internal procedures" (mentioned above), was cited as an A-Category document with respect to claims 1-10, 31 and 32. The Examiner indicated Chapter 5.3.1: Managing the resource main memory, especially pages 248 and 255-257 to be relevant.

Applicants respectfully request that the Examiner consider the above materials and cite the various documents. Copies of the above-noted documents, as well as copies of the International Search Reports, are attached and have been listed on a PTO-1449 Form which is also attached hereto. Accordingly, the Examiner is requested to initial the appropriate

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spaces on the attached PTO-1449 Form and to return a copy of the Form to Applicants with the next official communication in the present application to confirm consideration of these documents.

Applicants also bring to the Examiner's attention the following copending and commonly assigned patent applications:

U.S. Patent Application No. 09/856,512 (National Stage of PCT/SG99/00024) to PANG et al., entitled "Method of Processing Digital Material", which was filed on June 15, 2001;

U.S. Patent Application No. 09/856,514 (National Stage of PCT/SG99/00077) to PANG et al., entitled "A Method of Transferring an Active Application From a Sender to a Recipient", which was filed on June 15, 2000;

U.S. Patent Application No. 09/856,515 (National Stage of PCT/SG99/00018) to PANG et al., entitled "Method for Adapting Migrating Processes to Host Machines", which was filed on June 15, 2001; and

U.S. Patent Application No. 09/857,171 (National Stage of PCT/SG99/00009) to PANG et al., entitled "A Method for Detaching and Re-Attaching Components of a Computing Process", which was filed on June 15, 2001.

In accordance with 37 C.F.R. §1.98(a)(2)(iii), copies of the above-mentioned applications are attached hereto. However, the Examiner is also requested to review the file

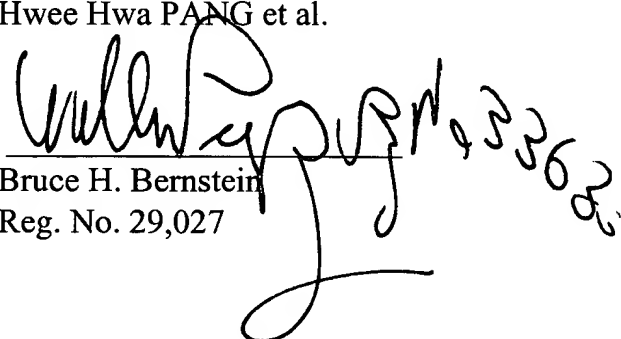
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wrapper of these U.S. patent applications at the U.S. Patent and Trademark Office and references of record (if any) cited therein.

Further, Applicants note that an Office Action on the merits has not yet issued in the instant application, and thus, no fee is required to ensure consideration of the items of information cited in this statement.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,
Hwee Hwa PANG et al.


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October 4, 2001
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